

# 5/16" 322 MONOCONDUCTOR S77 (12/18)

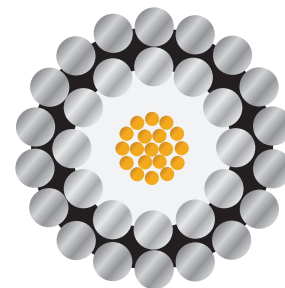
8.18 mm

**CONDUCTOR:** Copper, Nickel Plated, Water Blocked.

**INSULATION:** PFA/ETFE.

**ARMOR:** SUPA 75 (UNS S31277)

Special Sealant is applied between armor layers.



Construction Characteristics		English	Metric
Conductor - # 15 AWG, 19 x 0.0142"	dia.	0.071"	1.803 mm
Wall Thickness:		0.042"	1.067 mm
Insulation - OD:	dia.	0.155"	3.937 mm
Armor - Inner: 12 wires 0.0445"	dia.	0.233"	5.918 mm
Armor - Outer: 18 wires 0.0445"	dia.	0.322"	8.179 mm

Mechanical Characteristics		English	Metric
Weight in Air		206 lb/kft	307 kg/km
Weight in Water		176 lb/kft	262 kg/km
Minimum Breaking Strength, Ends Fixed		10,600 lbf	47.15 kN
Minimum Wire Break Strength (In/Out)		387/387 lbf	1721/1721 N
Maximum Working Load		5,830 lbf	25.93 kN
Temperature Rating (Maximum)		500°F	260°C
Suggested Minimum Sheave	dia.	18"	457 mm
Stretch Coefficient (Nominal)		1.1 ft/kft/klb +0.005"	1.24 m/km/5kN +0.127 mm
Outside Diameter	0.322"	-0.002"	8.18 mm -0.051 mm

Electrical Characteristics		English			Metric		
1ZATL							
Temperature Rating		1 hr 550°	8 hr 500°	Cont. 450°	1 hr 260°	8 hr 232°	Cont. 204°
Voltage Rating		1500 VDC			1500 VDC		
D.C. Conductor Resistance at 68° F (20° C) (Maximum)		2.8 Ω/kft			9.2 Ω/km		
D.C. Armor Resistance at 68° F (20° C) (Maximum)		10.4 Ω/kft			34.1 Ω/km		
Capacitance Conductor to Armor (Maximum)		48 pf/ft			157 pf/m		
Insulation Resistance (Minimum) @ 500 VDC		1500 MΩ/kft			5000 MΩ/km		